

MATERIA PRO WOOD - Activator B

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product Identifier

| | |
|-----------------------------|--------------------------------|
| Product name | MATERIA PRO WOOD - ACTIVATOR B |
| Synonyms | Not Available |
| Proper shipping name | Not Applicable |

1.2. Relevant identified uses of the substance or mixture and uses advised against

| | |
|---------------------------------|---|
| Relevant identified uses | Professional / Consumer |
| Uses advised against | Use according to manufacturer's directions. |

1.3. Details of the manufacturer/importer

| | |
|--------------------------------|---|
| Registered company name | ACM ITALY S.r.l. |
| Address | Via Enrico Mattei, 8 – 20010 Casorezzo (MI) |
| Telephone | +39 02 90 36 11 48 |
| Website | www.materia-italy.com |
| Email | laboratorio@acm-italy.com |

1.4. Emergency telephone number

| | |
|------------------------------------|--------------------|
| Emergency telephone numbers | +39 02 90 36 11 48 |
|------------------------------------|--------------------|

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

| CHEMWATCH HAZARD RATINGS | | Min | Max |
|--------------------------|---|-----|-----|
| Flammability | 0 | | |
| Toxicity | 0 | | |
| Body Contact | 0 | | |
| Reactivity | 0 | | |
| Chronic | 0 | | |

0 = Minimum
1 = Low
2 = Moderate
3 = High
4 = Extreme

| | | |
|---------------------------|--------|---|
| DPD classification | R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
|---------------------------|--------|---|

Continued...

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| | |
|---|-----------------------------------|
| Classification according to regulation (EC) No 1272/2008 [CLP] | Chronic Aquatic Hazard Category 3 |
|---|-----------------------------------|

2.2. Label elements

| | |
|---------------------------|-----------------------|
| CLP label elements | Not Applicable |
| SIGNAL WORD | NOT APPLICABLE |

Hazard statement(s)

| | |
|-------------|---|
| H412 | Harmful to aquatic life with long lasting effects |
|-------------|---|

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

| | |
|-------------|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P273 | Avoid release to the environment. |

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

| | |
|-------------|--|
| P501 | Dispose of contents/container to authorised chemical landfill or if organic to high temperature incineration |
|-------------|--|

DSD / DPD label elements

Not Applicable

Relevant risk statements are found in section 2.1

| | |
|--------------------------------|----------------|
| Indication(s) of danger | Not Applicable |
|--------------------------------|----------------|

SAFETY ADVICE

| | |
|------------|--|
| S02 | Keep out of reach of children. |
| S29 | Do not empty into drains. |
| S56 | Dispose of this material and its container at hazardous or special waste collection point. |

2.3. Other hazards

| | |
|--|---|
| | Inhalation and/or ingestion may produce health damage*. |
| | May produce discomfort of the eyes and skin*. |

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

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3.1. Substances

See 'Composition on ingredients' in Section 3.2

3.2. Mixtures

| 1. CAS No | | | Classification according | Classification according to |
|-------------|-----------|------|--------------------------|------------------------------------|
| 2. EC No | %[weight] | Name | to directive 67/548/EEC | regulation (EC) No 1272/2008 [CLP] |
| 3. Index No | | | [DSD] | |
| 4. REACH No | | | | |

Continued...

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| | | | | |
|---|-------|-----------------------------------|---------------------|--|
| 1.12125-02-9 2.Not Applicable 3.Not Applicable 4.01-2119489385-24-XXXX, 01-2119487950-27-XXXX | <10 | ammonium chloride | R22, R36 | Acute Tox. , Eye Irrit. ; H302, H319 |
| 1.7758-98-7 2.Not Applicable 3.Not Applicable 4.01-2119520566-40-XXXX | 1-2.5 | copper sulfate | R22, R36/38, R50/53 | Acute Tox. , Eye Irrit. , Skin Irrit. , Aquatic Acute 1, Aquatic Chronic 1; H302, H319, H315, H400, H410 |

SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures

| | |
|---------------------|---|
| Eye Contact | <p>If this product comes in contact with eyes:</p> <ul style="list-style-type: none"> ▶ Wash out immediately with water. ▶ If irritation continues, seek medical attention. ▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. <p>If skin or hair contact occurs:</p> |
| Skin Contact | <ul style="list-style-type: none"> ▶ Flush skin and hair with running water (and soap if available). ▶ Seek medical attention in event of irritation. ▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area. ▶ Other measures are usually unnecessary. |
| Inhalation | <ul style="list-style-type: none"> ▶ Immediately give a glass of water. ▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. |
| Ingestion | |

4.2 Most important symptoms and effects, both acute and delayed

| | |
|--|----------------|
| | See Section 11 |
|--|----------------|

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. for

copper intoxication:

- ▶ Unless extensive vomiting has occurred empty the stomach by lavage with water, milk, sodium bicarbonate solution or a 0.1% solution of potassium ferrocyanide (the resulting copper ferrocyanide is insoluble).
- ▶ Maintain electrolyte and fluid balances.
- ▶ Institute measures for impending renal and hepatic failure.

[GOSSELIN, SMITH & HODGE: Commercial Toxicology of Commercial Products] ▶ A role for activated

for charcoals or emesis is, as yet, unproven.

[ELLENHORN & BARCELOUX: Medical Toxicology]

SECTION 5 FIREFIGHTING MEASURES

5.1. Extinguishing media

| | |
|--|--|
| | ▶ There is no restriction on the type of extinguisher which may be used. |
|--|--|

5.2. Special hazards arising from the substrate or mixture

| | |
|-----------------------------|-------------|
| Fire Incompatibility | None known. |
|-----------------------------|-------------|

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5.3. Advice for firefighters

| | |
|------------------------------|---|
| Fire Fighting | ▶ Use water delivered as a fine spray to control fire and cool adjacent area. |
| Fire/Explosion Hazard | ▶ Non combustible. |

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|--|---------------|
| | See section 8 |
|--|---------------|

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6.2. Environmental precautions

| | |
|--|----------------|
| | See section 12 |
|--|----------------|

6.3. Methods and material for containment and cleaning up

| | |
|---------------------|--|
| Minor Spills | ▶ Clean up all spills immediately. |
| Major Spills | ▶ Absorb or contain isothiazolinone liquid spills with sand, earth, inert material or vermiculite. |

6.4. Reference to other sections

| | |
|--|---|
| | Personal Protective Equipment advice is contained in Section 8 of the MSDS. |
|--|---|

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

| | |
|--------------------------------------|---|
| Safe handling | ▶ Limit all unnecessary personal contact. |
| Fire and explosion protection | See section 5 |
| Other information | |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|---|---|
| Suitable container | ▶ Polyethylene or polypropylene container. |
| Storage incompatibility | <p>Ammonium chloride:</p> <ul style="list-style-type: none"> ▶ can be self-reactive - explosion may occur when closed containers are opened after long storage ▶ may react violently with water producing heat and hydrogen chloride ▶ reacts violently with boron trifluoride, boron pentafluoride, bromine trichloride, bromine trifluoride, iodine heptafluoride, potassium chlorate ▶ reacts with alkalis to produce toxic fumes of ammonia ▶ reacts with mist common metals, silver and silver compounds ▶ mixtures with hydrogen cyanide may form explosive nitrogen trichloride ▶ is incompatible with alkalis, alkali carbonates, acids, salts of lead or silver ▶ may produce fumes which corrode metals under fire conditions. |
| PACKAGE MATERIAL INCOMPATIBILITIES | |
| Not Available | |

7.3. Specific end use(s)

See section 1.2

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

DERIVED NO EFFECT LEVEL (DNEL)

Not Available

PREDICTED NO EFFECT LEVEL (PNEC)

Not Available

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materia
extremely decorative paint

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|-------------------------------------|-------------------|-------------------------|----------------------|----------------------|---------------|---------------|
| UK Workplace Exposure Limits (WELs) | ammonium chloride | Ammonium chloride, fume | 10 mg/m ³ | 20 mg/m ³ | Not Available | Not Available |

EMERGENCY LIMITS

| Ingredient | Material name | TEEL-1 | TEEL-2 | TEEL-3 |
|-------------------|-------------------|----------------------|----------------------|-----------------------|
| ammonium chloride | Ammonium chloride | 20 mg/m ³ | 41 mg/m ³ | 330 mg/m ³ |

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| | | | | |
|----------------|--------------------------------------|-----------|-----------|------------|
| copper sulfate | Copper sulfate; (Copper(II) sulfate) | 2.5 mg/m3 | 2.5 mg/m3 | 55 mg/m3 |
| copper sulfate | Copper(II) sulfate pentahydrate | 12 mg/m3 | 60 mg/m3 | 1200 mg/m3 |

8.2. Exposure controls

| | |
|--|---|
| 8.2.1. Appropriate engineering controls | Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. |
| 8.2.2. Personal protection |  |
| Eye and face protection | <ul style="list-style-type: none"> ▶ Safety glasses with side shields ▶ Chemical goggles. |
| Skin protection | See Hand protection below |
| Hands/feet protection | Wear general protective gloves, eg. light weight rubber gloves. |
| Body protection | See Other protection below |
| Other protection | No special equipment needed when handling small quantities. |
| Thermal hazards | Not Available |

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion **NOTE:** As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as 'feel' or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

Forsberg Clothing Performance Index[®].

The effect(s) of the following substance(s) are taken into account in the **computer-generated** selection: Onix V

| Material | CPI |
|------------------|-----|
| NEOPRENE | A |
| NEOPRENE/NATURAL | A |
| NITRILE | A |
| PE | A |
| PE/EVAL/PE | A |
| PVC | A |
| TEFLON | A |
| VITON | A |
| NATURAL RUBBER | B |
| NATURAL+NEOPRENE | B |

MATERIA PRO WOOD - Activator B**8.2.3. Environmental exposure controls****Respiratory protection**

Type BKAX-P Filter of sufficient capacity.

Where the concentration of gas/particulates in the breathing zone approaches or exceeds the 'Exposure Standard' (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|------------------------------------|----------------------|-----------------------|----------------------------|
| up to 10 x ES | BKAX-AUS P2 | - | BKAX-PAPR-AUS / Class 1 P2 |
| up to 50 x ES | - | BKAX-AUS / Class 1 P2 | - |
| up to 100 x ES | - | BKAX-2 P2 | BKAX-PAPR-2 P2 ^ |

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO₂), G = Agricultural chemicals, K = Ammonia(NH₃), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

See section 12

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Continued...

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9.1. Information on basic physical and chemical properties

| | | | |
|---|---------------|--|---------------|
| Appearance | Green | | |
| Physical state | Liquid | Relative density (Water = 1) | Not Available |
| Odour | Lavender | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available |
| pH (as supplied) | 4.8-5.5 | Decomposition temperature | Not Available |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | 3000-5000 |
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol) | Not Available |
| Flash point (°C) | Not Available | | |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Available | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Not Available | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | Not Available | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water (g/L) | Immiscible | pH as a solution(1%) | Not Available |
| Density (20°C) | 1.029 | VOC g/L | 0.7689 |

9.2. Other information

| | |
|--|---------------|
| | Not Available |
|--|---------------|

MATERIA PRO WOOD - Activator B**SECTION 10 STABILITY AND REACTIVITY**

| | |
|---|---|
| 10.1.Reactivity | See section 7.2 |
| 10.2.Chemical stability | Product is considered stable and hazardous polymerisation will not occur. |
| 10.3. Possibility of hazardous reactions | See section 7.2 |
| 10.4. Conditions to avoid | |
| 10.5. Incompatible materials | See section 7.2 |
| 10.6. Hazardous decomposition products | See section 5.3 |




SECTION 11 TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

| | |
|----------------|--|
| Inhaled | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). |
|----------------|--|

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| | | |
|--------------------------|--|---------------------------------|
| Ingestion | Ammonium chloride, a urine-acidifying agent for kidney stone disease and urinary tract infection has been shown to cause exhaustion, 'air hunger' and increased acidity of blood. | |
| Skin Contact | The liquid may be miscible with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. | |
| Eye | Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn). | |
| Chronic | Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course. | |
| ammonium chloride | TOXICITY | IRRITATION |
| | Intraperitoneal (rat) LD50: 3250 mg/kg | Eye (rabbit): 100 mg SEVERE |
| | Oral (rat) LD50: 1650 mg/kg | Eye (rabbit): 500 mg/24h SEVERE |
| copper sulfate | TOXICITY | IRRITATION |
| | Oral (rat) LD50: 300 mg/kg | Nil reported |
| Onix V | | |
| ammonium chloride | for copper and its compounds (typically copper chloride): Acute toxicity: There are no reliable acute oral toxicity results available. | |
| copper sulfate | The material may produce severe irritation to the eye causing pronounced inflammation. | |
| | Asthma-like symptoms may continue for months or even years after exposure to the material ceases. | |

Legend:  – Data required to make classification available
 – Data available but does not fill the criteria for classification
 – Data Not Available to make classification

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SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|----------------|-------------------------|------------------|
| copper sulfate | HIGH | HIGH |

12.3. Bioaccumulative potential

| Ingredient | Bioaccumulation |
|----------------|------------------------|
| copper sulfate | LOW (LogKOW = -2.2002) |

12.4. Mobility in soil

| Ingredient | Mobility |
|----------------|-------------------|
| copper sulfate | LOW (KOC = 6.124) |

12.5. Results of PBT and vPvB assessment

| P | B | T |
|---|---|---|
| | | |

Continued...

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| | | | |
|-------------------------|---------------|---------------|---------------|
| Relevant available data | Not Available | Not Available | Not Available |
|-------------------------|---------------|---------------|---------------|

12.6. Other adverse effects

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

| | |
|------------------------------|--|
| Product / Packaging disposal | Legislation addressing waste disposal requirements may differ by country, state and/ or territory. |
| Waste treatment options | Not Available |
| Sewage disposal options | Not Available |

SECTION 14 TRANSPORT INFORMATION

Labels Required

| | |
|------------------|----------------|
| Marine Pollutant | NO |
| HAZCHEM | Not Applicable |

Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| | | |
|------------------------------------|--------------------|----------------|
| 12.1. UN number | Not Applicable | |
| Packing group | Not Applicable | |
| UN proper shipping name | Not Applicable | |
| 14.4. Environmental hazard | No relevant data | |
| 14.5. Transport hazard class(es) | Class | Not Applicable |
| | Subrisk | Not Applicable |
| 14.6. Special precautions for user | Special provisions | Not Applicable |
| | Limited quantity | Not Applicable |

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Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| | | |
|---|---------------------|----------------|
| 14.1. UN number | Not Applicable | |
| 14.2. Packing group | Not Applicable | |
| 14.3. UN proper shipping name | Not Applicable | |
| 14.4. Environmental hazard | No relevant data | |
| 14.5. Transport hazard class(es) | ICAO/IATA Class | Not Applicable |
| | ICAO / IATA Subrisk | Not Applicable |
| | ERG Code | Not Applicable |

Continued...

MATERIA PRO WOOD - Activator B

| | | |
|---|---|----------------|
| 14.6. Special precautions for user | Special provisions | Not Applicable |
| | Cargo Only Packing Instructions | Not Applicable |
| | Cargo Only Maximum Qty / Pack | Not Applicable |
| | Passenger and Cargo Packing Instructions | Not Applicable |
| | Passenger and Cargo Maximum Qty / Pack | Not Applicable |
| | Passenger and Cargo Limited Quantity Packing Instructions | Not Applicable |
| | Passenger and Cargo Limited Maximum Qty / Pack | Not Applicable |

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| | | |
|---|--------------------|----------------|
| 14.1. UN number | Not Applicable | |
| 14.2. Packing group | Not Applicable | |
| 14.3. UN proper shipping name | Not Applicable | |
| 14.4. Environmental hazard | Not Applicable | |
| 14.5. Transport hazard class(es) | IMDG Class | Not Applicable |
| | IMDG Subrisk | Not Applicable |
| 14.6. Special precautions for user | EMS Number | Not Applicable |
| | Special provisions | Not Applicable |
| | Limited Quantities | Not Applicable |

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Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| | | |
|---|-------------------------------|----------------|
| 14.1. UN number | Not Applicable | |
| 14.2. Packing group | Not Applicable | |
| 14.3. UN proper shipping name | Not Applicable | |
| 14.4. Environmental hazard | No relevant data | |
| 14.5. Transport hazard class(es) | Not Applicable Not Applicable | |
| 14.6. Special precautions for user | Classification code | Not Applicable |
| | Limited quantity | Not Applicable |
| | Equipment required | Not Applicable |
| | Fire cones number | Not Applicable |

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Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

| Source | Ingredient | Pollution Category |
|---|-------------------|--------------------|
| IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk | ammonium chloride | Z |

SECTION 15 REGULATORY INFORMATION

15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

| | |
|---|--|
| ammonium chloride(12125-02-9) is found on the following regulatory lists | 'European Customs Inventory of Chemical Substances ECICS (English)'; 'European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)'; 'UK Workplace Exposure Limits (WELs)'; 'European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI'; 'European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances - updated by ATP: 31' |
| copper sulfate(7758-98-7) is found on the following regulatory lists | 'European Customs Inventory of Chemical Substances ECICS (English)'; 'European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)'; 'European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI'; 'European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances - updated by ATP: 31' |

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : 67/548/EEC, 1999/45/EC, 98/24/EC, 92/85/EC, 94/33/EC, 91/689/EEC, 1999/13/EC, Regulation (EU) No 453/2010, Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and their amendments as well as the following British legislation:- The Control of Substances Hazardous to Health Regulations (COSHH) 2002- COSHH Essentials- The Management of Health and Safety at Work Regulations 1999

15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

SECTION 16 OTHER INFORMATION

Full text Risk and Hazard codes

| | |
|---------------|--|
| H302 | Harmful if swallowed |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| R22 | Harmful if swallowed. |
| R36 | Irritating to eyes. |
| R36/38 | Irritating to eyes and skin. |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

Other information

MATERIA PRO WOOD - Activator B

Ingredients with multiple cas numbers

| Name | CAS No |
|-------------------|-------------------------|
| ammonium chloride | 12125-02-9, 152128-19-3 |
| copper sulfate | 23254-43-5, 7758-98-7 |

Classification of the preparation and its individual components has drawn on official and authoritative sources. A list of reference resources used to assist the committee may be found at:
www.chemwatch.net/references

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

- EN 166 Personal eye-protection
- EN 340 Protective clothing
- EN 374 Protective gloves against chemicals and micro-organisms
- EN 13832 Footwear protecting against chemicals
- EN 133 Respiratory protective devices

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